

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/16088

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl.⁷ B62D1/20, F16D3/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl.⁷ B62D1/00-1/28, F16D3/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-2003
Kokai Jitsuyo Shinan Koho 1971-2003 Jitsuyo Shinan Toroku Koho 1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE 3730393 A1 (Lemförder Metallwaren AG), 23 March, 1989 (23.03.89), Full text (Family: none)	1
Y	JP 2001-50293 A (NACAM France S.A.), 23 February, 2001 (23.02.01), Full text & EP 1065397 A & US 6343993 A	1
Y	JP 2002-539033 A (Melchor, DAUMAL CASTELLON), 19 November, 2002 (19.11.02), Par. No. [0019]; Fig. 2 & EP 1078843 A1 & WO 00/55028 A & ES 2161127 A	1

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:
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"E" earlier document but published on or after the international filing date
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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search
19 January, 2004 (19.01.04)

Date of mailing of the international search report
03 February, 2004 (03.02.04)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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PCT/JP03/16088

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2000-38142 A (Daimler Chrysler AG.), 08 February, 2000 (08.02.00), & DE 19824477 A	1
A	JP 2001-239944 A (NSK Ltd.), 04 September, 2001 (04.09.01), (Family: none)	1
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 27492/1991 (Laid-open No. 123775/1992) (Fuji Kiko Co., Ltd.), 10 November, 1992 (10.11.92), (Family: none)	1
A	JP 2002-286034 A (The Torrington Co., Ltd.), 03 October, 2002 (03.10.02), & DE 10202899 A1 & GB 2373551 A	1